## ABSTRACT OF THE DISCLOSURE

The present invention provides an optical apparatus comprising an optical gain correction filter having a multilayer film structure formed by stacking a plurality of thin films with different diffractive indexes on a light transmitting board, wherein when the light with the wavelength  $\lambda$  enters at the incident angle  $\theta$ , the transmissivity is assumed to be T1 ( $\lambda$ ,  $\theta$ ) (0  $\leq$  T1 ( $\lambda$ ,  $\theta$ )  $\leq$  1), and the thickness and stacking state of each thin film of the optical gain correction filter are adjusted to increase the transmissivity T1 ( $\lambda$ <sub>0</sub>,  $\theta$ ) when the incident angle  $\theta$  increases close to the predetermined maximum incident angle  $\theta$  max with respect to the incident light with the wavelength  $\lambda$ <sub>0</sub>. The optical apparatus is applied to a bar code reader.